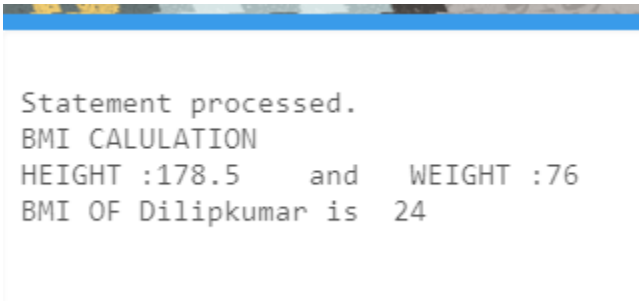
--1. BMI CALULATION

```
DECLARE /*Variable Declaration section*/
v_name  NVARCHAR2(100):= NULL;
v_height NUMBER(5,2) := 0.0;
v_weight NUMBER(5,2) := 0.0;
v_bmi NUMBER := 0.0;
BEGIN<<BMI>> /* Program starts here*/
v_name   := 'Dilipkumar';
v_height := 178.5;
v_weight := 76.00;
v_bmi := (v_weight/(v_height*v_height))*10000;
DBMS_OUTPUT.PUT_LINE('BMI CALULATION');
DBMS_OUTPUT.PUT_LINE('HEIGHT :'|| v_height || '    and   ' || 'WEIGHT :' ||v_weight);
DBMS_OUTPUT.PUT_LINE('BMI OF '|| v_name || ' is  ' || ROUND(v_bmi));
END BMI;  /* Program Ends here*/
```



```
Statement processed.
BMI CALULATION
HEIGHT :178.5    and   WEIGHT :76
BMI OF Dilipkumar is  24
```

--2. CALULATING COMPOUND INTEREST FOR RS.500 FOR 10 YEARS

CI = P(1+R/N)NT

/*A = amount

P = principal

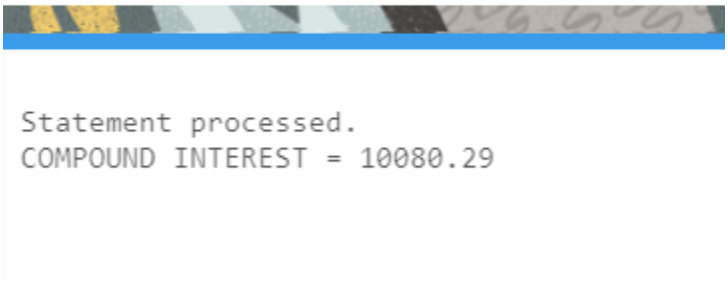
r = rate of interest

n = number of times interest is compounded per year

t = time (in years)

```
DECLARE /* Variable declaration for Compound Interest*/
v_p NUMBER(10, 2);
v_r NUMBER(10, 2);
v_t NUMBER(10, 2);
v_ci NUMBER(10, 2);
BEGIN
v_p := 10000;
v_r := 0.08;
v_t := 10;
v_ci := v_p * Power (1 + ( v_r / 100 ),v_t);
DBMS_OUTPUT.PUT_LINE('COMPOUND INTEREST = '      || v_ci);
END ; /* program ends*/
```

SQL Worksheet



<u>--3.CALCULATE SIMPLE INTREST FOR 1000 RS,8%,20 YRS</u>

/*A = P(1+RT)

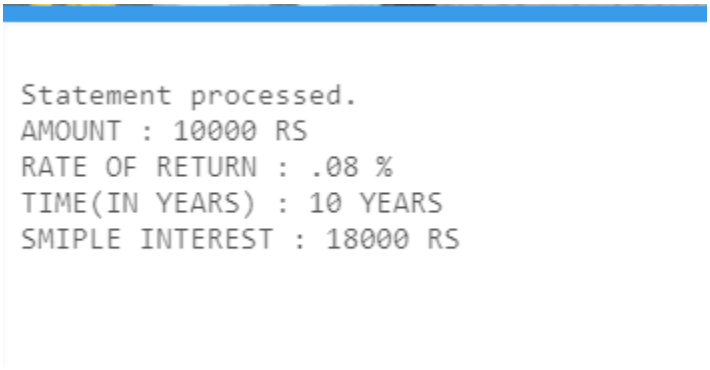
A = final amount

P = initial principal balance

r = annual interest rate

t = time (in years)*/

```
DECLARE /* Var declaration for simple interest calculation*/
v_final_amount  NUMBER(10,2) := 0 ;
v_p  NUMBER(10,2) := 0 ;
v_r  NUMBER(10,2) := 0 ;
v_t  NUMBER(10,2) := 0 ;
BEGIN<<Si>>
v_p := 10000;
v_r := 0.08;
v_t := 10;
v_final_amount := v_p*(1+v_r*v_t);
DBMS_OUTPUT.PUT_LINE('AMOUNT : ' || v_p ||' RS' );
DBMS_OUTPUT.PUT_LINE('RATE OF RETURN : ' || v_r ||' %' );
DBMS_OUTPUT.PUT_LINE('TIME(IN YEARS) : ' || v_t || ' YEARS');
DBMS_OUTPUT.PUT_LINE('SMIPLE INTEREST : ' || v_final_amount || ' RS' );
END Si;/*Program End*/
```



--4. 5 MARKS AND ITS SUM AND AVG

DECLARE /*Program for calculating student total mark and avg mark*/

```
v_name NVARCHAR2(20):= NULL;
v_m1 NUMBER(3) :=93;
v_m2 NUMBER(3) :=95;
v_m3 NUMBER(3) :=80;
v_m4 NUMBER(3) :=85;
v_m5 NUMBER(3) :=75;
v_tot NUMBER(3) :=0;
v_avg NUMBER(5,2) :=0.0;
BEGIN<<Outer_block>> /* program starts here*/
v_name := 'NITISH';
v_tot := v_m1+v_m2+v_m3+v_m4+v_m5;
v_avg := v_tot/5;
DBMS_OUTPUT.PUT_LINE('NAME :'||' ' || v_name);
DBMS_OUTPUT.PUT_LINE('MARKS :'|| v_m1 || ' ' || v_m2 || ' ' || v_m3 || ' '|| v_m4 || ' ' || v_m5);
DBMS_OUTPUT.PUT_LINE('TOTAL MARKS :'||' '||v_tot);
DBMS_OUTPUT.PUT_LINE('AVERAGE MARKS :'|| ' ' || v_avg );
END Outer_block; /*Program Ends Here*/
```

SQL Worksheet

```
Statement processed.
NAME : NITISH
MARKS :93 95 80 85 75
TOTAL MARKS : 428
AVERAGE MARKS : 85.6
```